Atlantic Testing Laboratories
LIMITED

SUBSURFACE INVESTIGATION FORT FAIRFIELD, ME

CONTRACT DACW-33-85-D-0011 CONTRACTING OFFICER: Edward D. Hammond, LTC, CE 28 June 1985

DELIVERY ORDER NO. 0009 5 MARCH 1986

PREPARED FOR: U.S. Army Corps of Engineers

New England Division 424 Trapelo Road Waltham, MA 02254-9149

PREPARED BY: Theresa A. Beddoe

Atlantic Testing Laboratories, Limited

P. O. Box 29 Canton, NY 13617

March 18, 1986

ATL Report No. CD013-1-3-86

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SCOPE OF INVESTIGATION

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—ENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (4) CFR) 3-16-101
EXCEPTION TO SF 36 APPROVED
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CONTINUATION SHEET

REF NO OF DOC. BEING CONT D. Delivery Order 0009 to Contract No. DACW33-85-D-0011

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| 2.1 | Geotechnical Report | APPROX. | | | ESTIMATED |
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| 6.1 | Mobilization and Demobilization | 1 | JOB | \$700 .0 0 | 700.00 |
| 5.3 | Mileage from/to contractor's main equipment storage site | 660 | MI | 1.15 | 759.00 |
| 6.5 | Standby time/on site moves | 24 | HR | 75.0 0 | 1,800.00 |
| 13.1 | 0 - 30 Pt. depth | 36 | EA | 13.00 | 468.00 |
| _3.2 | 31 - 50 Ft. depth | 2 | EA | 16.00 | 32.00 |
| 8.1 | BX, NX Size | 155 | LF | 18.00 | 2,790.00 |
| 22.3 | NWX Size and/or NWM | 16 | LF | 45.00 | 720.00 |
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ATTACHMENT NO. 1

GEB REQUISITION NO. 86-28, DELIVERY ORDER NO. 0009

CONTRACT NO. DACW 33-B5-D-0011

INSPECTION AND EXPLORATION INSTRUCTIONS

PROJECT: Fort Fairfield Local Protection Project

SITE: Fort Fairfield, Maine

AUTHORITY: The Fort Fairfield Local Protection Project is funded under

authority of Section 205 of the 1948 Flood Control Act.

PURPOSE: The subsurface investigations are to determine the foundation

conditions adjacent to the Aroostook River for the proposed

dike improvement project.

1. SCOPE OF INVESTIGATION

a. Locate seven (7) drive sample - SPT borings by means of taping the given distances as indicated on Attachment No. 2. Elevations for the borings will be estimated based on the contours shown on Attachment 2.

- b. The seven drive sample SPT borings shall be driven to the depths as follows: A-32', B-32', C-17', D-12', E-32', F-32', and G-22'. The sampling work shall be in accordance with paragraph 13, page C-21 of the specifications. The entire sample for each SPT drive shall be saved and placed in as many jars as required. Where refusal is encountered before depth is attained in a borehole, the boring shall be continued using vertical diamond core drilling. If the material causing refusal is not penetrated within five feet of the original refusal elevation, the boring shall be terminated. Refusal is defined as 100 blows with a less than 12" penetration or bouncing refusal.
- c. A geotechnical inspector shall act as field inspector while performing the borings. The inspector shall provide telephone reports to Mr. Blair, Corps of Engineers, at 617-647-8396 at least once a day.
- d. All samples shall be delivered to the Corps of Engineers Headquarters in Waltham, Massachusetts by the field inspector. Sample delivery shall be coordinated with the Director, NED Materials and Water, Quality Laboratory at 617-647-8357/8392.

2. SITE CONDITIONS

The proposed exploration program is adjacent to the Aroostook River in Fort Fairfield, Maine. The proposed explorations are on relatively flat areas, except for possibly FD-C.

RIGHTS OF ENTRY

The rights of entry have been obtained from the Town of Fort Fairfield and the Canadian Pacific Railroad (copies attached). The contractor is

responsible for contacting the town and railroad to notify them when the work is to be done. The individuals to be contacted are:

Alphonse R. Dixon
Town Manager
Town of Fort Fairfield
P. O. Box 451
Fort Fairfield, ME 04742
(207) 472-3801

M. S. Andrews
Supt. of Canadian Pacific Railway
Canadian Pacific Railway
Box 3460
Station B
St. John, New Brunswick E 2M4x2
(506) 635-2200

The contractor is also responsible for obtaining a flagman, if one is required by the Canadian Pacific Railway.

4. COORDINATION

Mr. J. Blair, Corps of Engineers, 617-647-8396, shall be contacted five days prior to start of work and at least once a day by the geotechnical inspector to report on how work is progressing and what types of materials are being encountered.

5. EXPLORATION NUMBERS

The drive boring locations as shown on Attachment No. 2 and designated A-G shall be numbered FD-86-7 through FD-86-13 in order of their completion. The new numbers shall be indicated on the boring logs and shown on a plan of explorations.

6. GOVERNMENT REVIEW

The Government will review the draft submittal as well as the completed work. Subsequent to such review, the Contractor shall accomplish any corrections which may be directed as the result of the Government review.

7. COMPLETION SCHEDULE

Services under this delivery order shall start within 15 calender days after receipt of delivery order. Duration of the drilling effort is estimated to be seven work days. The geotechnical report shall be submitted in draft format for review (by the Government), postmarked no later than seven calendar days after completion of the field work. Government review will take approximately ten calendar days from receipt of draft report. The final geotechnical report shall be submitted postmarked no later than seven calendar days after receipt of draft report with Government comments.

B. QUALITY CONTROL

You will be held responsible for the quality of the maps submitted and for all damages caused the Government as a result of your negligence in the performance of any services furnished under the contract.

Although submissions required by your contract are technically reviewed by the Government, it is emphasized that your work must be prosecuted using proper internal controls and review procedures. The letter of transmittal for each submission which you make shall include a certification that the submission has been subjected to your own review and coordination procedures to insure (a) completeness for each discipline commensurate with the level of effort required for that submission, (b) elimination of conflicts, errors and omissions, and (c) the overall professional and technical accuracy of the submission. Documents which are significantly deficient in any of these areas will be returned to you for correction and/or upgrading prior to our completing our review. Contract submission dates will not be extended if a resubmission of draft material is required for this reason.

DEPARTMENT OF THE ARMY

| • ' | | 10001 | Protection | Project |
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| | | | | |

Boring FD-A,D,E,F & G

(Project, Installation of Activity)

(Tract Number or Other Property Identification)

The undersigned, hereinafter called the "Owner", hereby grants to the UNITED STATES OF AMERICA, hereinafter called the "Government", a permit or right-of-entry upon the following terms and conditions:

- 1. The Owner hereby grants to the Government an irrevocable right to enter upon the lands hereinafter described at any time within a period of six (6) months from the date of this instrument, in order to survey, make test borings, and carry out such other exploratory work as may be necessary to complete the investigation being made of said lands by the Government.
- 2. The permit includes the right of ingress and egress on other lands of the Owner not described below, provided such ingress and egress is necessary and not otherwise conveniently available to the Government.
- Government shall remain the property of the Government and may be removed by the Government at any time within a reasonable period after the expiration of this permit or right-of-entry.
- 4. The Government agrees to be responsible for damages arising from the activity of the Government, its officers, employees, or representatives on said land, in the exercise of rights under this permit or right-of-entry, either by repairing such damage or at the option of the Government by making an appropriate settlement with the Owner in lieu thereof.
- 5. If aircraft flights over said lands, or entry upon the land by means of helicopter or other type aircraft, are necessary, the Government shall inform the Owner, in advance, of each such flight or entry.
- 6. The land affected by this permit or right-of-entry is located in the State of Maine County of Aroostook and is described as follows: As depicted on the Army Corps of Engineers map entitled "Ft. Fairfield Local Protection Exploration Plan."

WITNESS MY HAND AND SEAL this

day of

1958

For the Canadian Pacific Railway

(SF.41)

UNITED STATES OF AMERICA

BY Rollinger John

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AMENDMENT TO RIGHT-OF-ENTRY

"Railway requires 48 hours' notice prior to commencement of any work to arrange flagging protection, if required and at no time should any equipment be placed closer than 10 feet to the nearest rail of any track."

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The property of the tempter called the "Owner", hereby grants to the UNITATING OF the property of the UNITATING OF the property of the tellowing terms of the tellowing terms of the tellowing terms.

- The Owner hereby grants to the Government an irresocable right to enter upon the lands **Lighter described at any time within a period of** give (-6 -) months from the **due of this** instrument, in order to survey, make test borings, and carry out such other explosions work as may be necessary to complete the investigation being made of said lands by the Government.
- 2 The permit includes the right of ingress and egress on other lands of the Owner not described below, provided such ingress and egress is necessary and not otherwise conveniently available to the Government.
- 3. All tools, equipment, and other property taken upon or placed upon the land by the Government shall regiain the property of the Government and may be removed by the Government at any time within a reasonable period after the expiration of this permit or right-of-entry.
- 4. The Government agrees to be responsible for damages arising from the activity of the Government, its officers, employees, or representatives on said land, in the exercise of rights under this permit or right-of-entry, either by repairing such damage or at the option of the Government by making an appropriate settlement with the Owner in lieu thereof.
- 5. If aircraft flights over said lands, or entry upon the land by means of helicopter or other type aircraft, are necessary, the Government shall inform the Owner, in advance, of each such flight or entry.
- 6. The land affected by this permit or right-of-entry is located in the State of Maine County of Aroostook and is described as follows: As depicted on the Army Corps of Engineers map entitled "Fort Fairfield Local Protection-Exploration Plan." Land owned by Stephen F. & Elaine E. Novak, Assessor's Map #32, Lot #78. Test boring to be done in west driveway off Main Street, as shown on Corps of Engineers, Water Resources Investigation, St. John River Basin, Aroostook River, July 1983.
 - 7. The test results will be given to the property owner, after drilling is completed.

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| • | Stephen L M | Jove S ISLAL |

UNITED STATES OF AMERICA

day of

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RICHARD T. BOGACZYK

Chief, Real Estate Division

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Local Protection Project

Boring FD-F

Busines, frantitionen in Activity)

(Filet Number of Other Property Identification)

Tengened, hereinafter called the "Owner", hereby grants to the UNITED STATES OF the Period the "Government", a permit or right-of-entry upon the following terms a permit or right-of-entry upon the following terms are actions

- The Owner hereby grants to the Government an irrevocable right to enter upon the lands bereinatter described at any time within a period of six (6) months from the site of this instrument, in order to survey, make test borings, and earry out such other exploratory mark as may be necessary to complete the investigation being made of said lands by the Government
- 2 The permit includes the right of ingress and egress on other lands of the Owner not described below, provided such ingress and egress is necessary and not otherwise conveniently available to the Government.
- 3 All tools, equipment, and other property taken upon or placed upon the land by the Government shall remain the property of the Government and may be removed by the Government at any time within a reasonable period after the expiration of this permit or right-of-entry
- 4. The Government agrees to be responsible for damages arising from the activity of the Government, its officers, employees, or representatives on said land, in the exercise of rights under this permit or right-of-entry, either by repairing such damage or at the option of the Government by making an appropriate settlement with the Owner in lieu thereof.
- 5. If aircraft flights over said lands, or entry upon the land by means of helicopter or other type aircraft, are necessary, the Government shall inform the Owner, in advance, of each such flight or entry.
- 6. The land affected by this permit or right-of-entry is located in the State of Maine County of Aroostook and is described as follows: As depocted on the Army Corps of Engineers map entitled "Fort Fairfield Local Protection Exploration Plan."

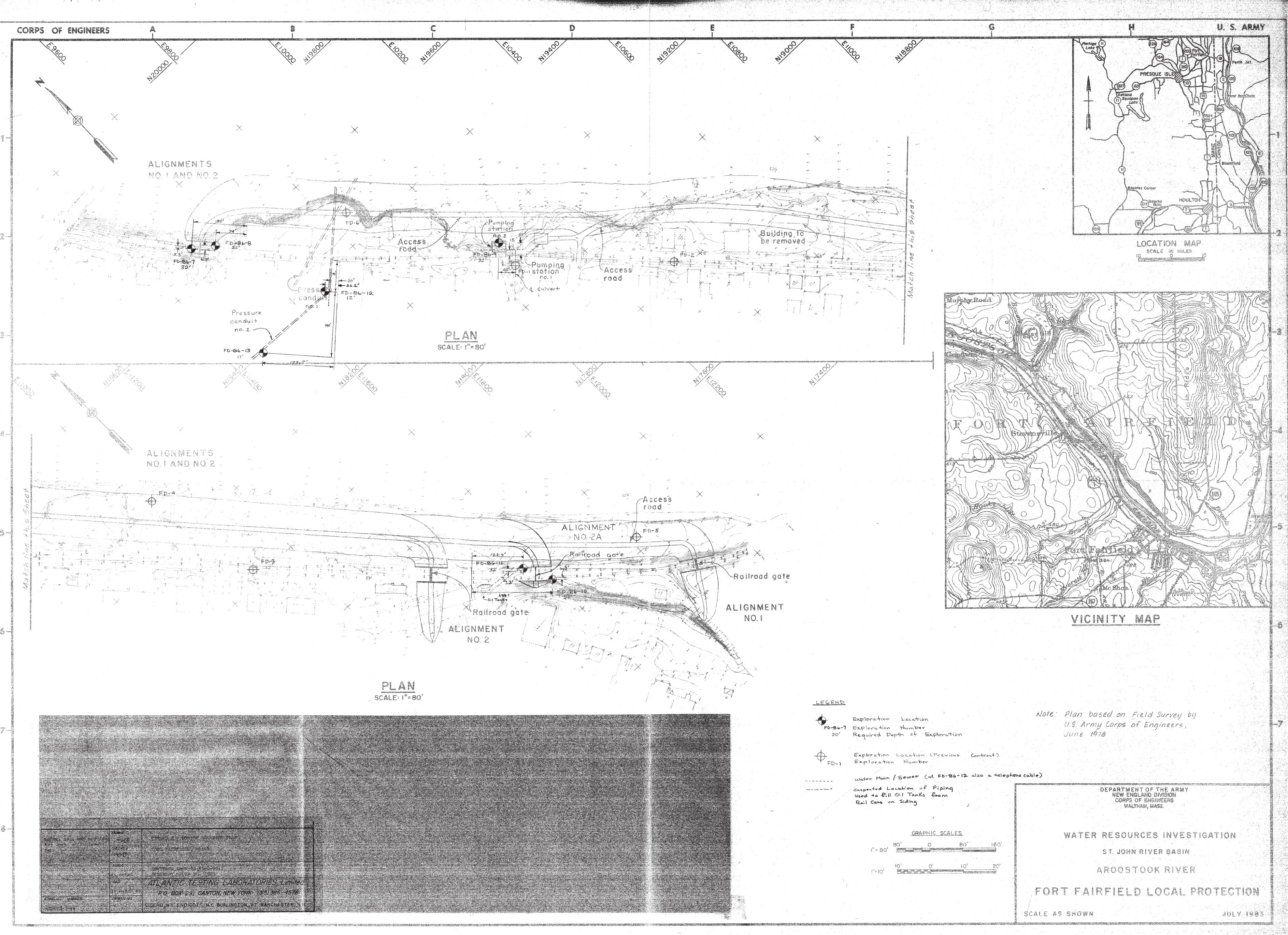
 Land woned by Gilbert Peterson, Family Trust, Assessor's Map#32, Lot #46. Test boring to be done as shown on Corps of Engineers, Water Resources Investigation, St. John River Basin, Aroostook River, July 1983.

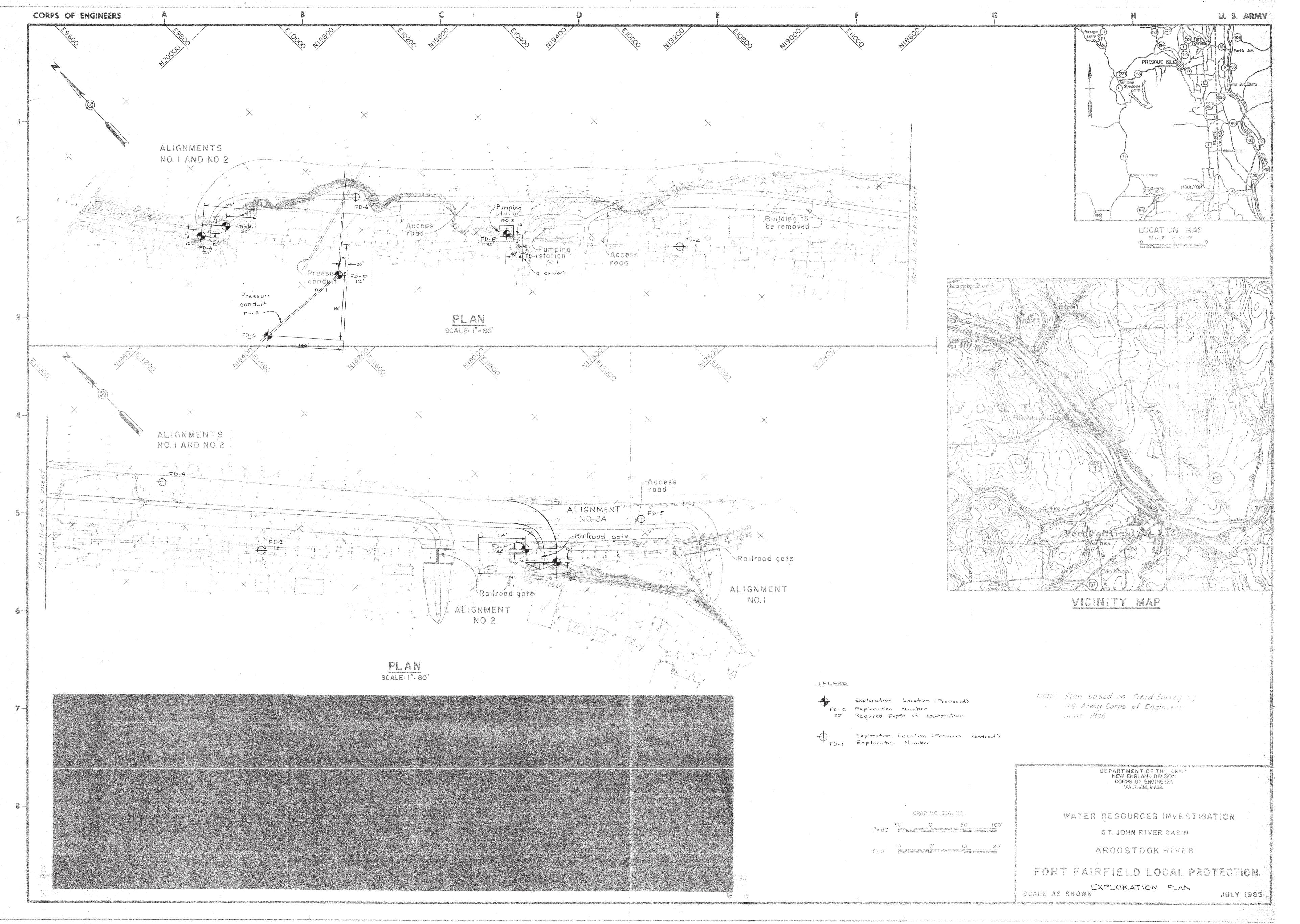
| WITNESS MY HAND AND SEAL this | 2nd day of December | .14 85 |
|-------------------------------|---------------------|-------------|
| | She Mahro-Presa | - |
| | Juffinn - Insa | MELL (SEAT) |
| | | (SEAT) |

UNITED STATES OF AMERICA

RICHARD T. BOGACZYK
Chief Real Estate Division

ENG FORM 1258 (ER 405-1-625) EDITION OF 1 DEC 62 IS OBSOLETE.





b. Project Site

The site is located adjacent to the Aroostook River along the Canadian Pacific Rail line in Fort Fairfield, ME.

c. Purpose

The subsurface investigations were to determine the foundation conditions adjacent to the Aroostook River for the proposed dike improvement project.

d. Authority

The Fort Fairfield Local Protection Project is funded under authority of Section 205 of the 1948 Flood Control act.

e. Scope of Investigation

Inspection and exploration instructions, which were provided by the Army Corps of Engineers, New England Division, are included in Section 3a. The subsurface investigation program employed drive sample borings with standard penetration tests.

Work under this delivery order consisted of locating seven (7) drive sample - SPT borings by means of taping the given distances as indicated on Attachment No. 2 of the delivery order (Section 3a). Elevations for the borings were roughly estimated from the contours shown on Attachment 2.

The drive sample - SPT borings were performed in accordance with paragraph 13, page C-21 of the specifications. Sampling intervals were 5 feet in the overburden or less where there was a significant change in the soil strata. The borings were advanced using a 3-1/4" I.D. hollow stem auger. All borings were terminated at the specified depth in overburden. The entire sample for each SPT drive was saved.

QUALITY CONTROL

a. General Certification Statement

I hereby certify that the above mentioned records, equipment and procedures were used to perform the subsurface exploration described herein. I also certify that the work was performed in a professional manner and meets the requirements set forth in the delivery order. This report has been subject to my review and is both complete and technically accurate.

CERTIFIED 11 April 1986

Spencer F. Thew, P.E./L.S.

b. Records Taken

NED Forms 121, 58, 58a and 59 were used to record pertinent drilling and sampling operations including elevations, blow counts, etc. Section 8 contains a complete series of these logs for the seven borings along with location maps.

Summaries of daily activities and telephone logs can be found in Tables I and II of Section 5. A chain of custody log is in Section 6. The safety meeting report, NED Form 251, is located in Section 7.

c. Equipment Used

All equipment and supplies were provided by Atlantic Testing Laboratories, Limited. A listing of pertinent equipment follows:

- truck-mounted CME 55 drill rig
- 140 pound drive hammer used to advance the split spoon sampler
- 3-1/4" I.D. hollow stem augers
- 1-3/8" I.D. split spoon soil samplers, 2.0 ft in length
- AW-sized rods were used to advance the split spoon sampler.

d. Procedures

The boring locations were established by taping the distances given on Attachment No. 2 of the delivery order (Section 3a). The actual boring locations (Figure 3, Section 8c) varied from these specified locations due to site inaccessibility, difficulty in fine adjustments to the rig position due to the rails and/or the snow accumulation, or problems with utility clearance. Specific reasons for each location difference are noted on NED Form 58 under "General Remarks" for each boring in Section 8d. However, the following changes should be noted here:

- 1. FD-86-9(E) was moved from 15 ft to 37 ft from the centerline of the track due to water mains under the requested position. Town public utilities personnel requested that the boring be moved behind the pine tree on site.
- 2. FD-86-ll(F) was moved 8.6 ft to the south in order to clear pipes used to empty tank cars on the siding into the oil tanks across the tracks to the north. It also should be noted that the soils at this site are strongly contaminated with spilled petroleum product.
- 3. FD-86-12(D) was moved from 20 ft to 26.2 ft from the wall of Peterson's Auto Parts due to water mains and a New England Telephone cable under the original site.
- 4. FD-86-13(C) was moved 6.5 ft to the south at the request of Mr. Novak in order to avoid crushing pine seedlings.

Elevations for the borings were roughly estimated from the contours on Attachment No. 2 of the delivery order (Section 3a).

The borings were advanced using a 3-1/4" I.D. hollow stem auger to 2.0 ft above the specified depth. The final two feet of the borings were completed by sampling.

Sampling was accomplished using a 1-3/8" I.D. split spoon sampler 2.0 ft in length. The sampler was advanced by a 140 pound hammer dropping in free fall from a height of 30 inches. Refusal was defined as 100 blows with a less than 12" penetration or bouncing refusal. The sample spoon shoes were kept reasonably sharp at all times. Dull, bent, or otherwise damaged samplers were not used.

The complete sample was saved and placed in 8 oz glass jars with hermetically sealed lids. The samples were not classified in the field due to one or more of the following reasons:

- 1. The samples were frozen.
- 2. The extreme cold of -10 to 10 degrees Fahrenheit threatened to freeze the samples.
- 3. It was snowing heavily.

The samples were brought to room temperature and classified in accordance with ASTM D-2488 no more than two days after sampling.

SUMMARY OF ACTIVITIES AND TELEPHONE LOG

TABLE I

SUMMARY OF ACTIVITIES

| Date | Activity |
|--------|--|
| 24 Feb | Monday: - site inspector made arrangements to meet with Town and Railway officials 25 Feb 86. |
| 25 Feb | Tuesday: on-site 12:00 - 17:30 - site inspection made with Town and Railway officials utility clearance discussed boring locations were taped and staked. |
| 26 Feb | Wednesday: - site inspector discussed site conditions with Patrick Sullivan, Manager of the Canton Subsurface Exploration Division of Atlantic Testing Laboratories, Limited. |
| 6 Mar | Thursday: - geotechnical inspector mobilized to site. |
| 7 Mar | Friday: on-site 08:00 - 16:00 - obtain utility clearances for borings mobilize drilling equipment to site. |
| 8 Mar | Saturday: on-site 08:30 - 10:30 - site inspection with drillers secure planking necessary for on-site moves. |
| 10 Mar | Monday: drillers on-site 07:00 - 17:30 - complete utility clearance drill FD-86-7 (A) and FD-86-8 (B) conduct safety meeting stand by time 4 hours for on-site moves, safety meeting and final utility clearance from New England Telephone. |
| ll Mar | <pre>Tuesday: drillers on-site 06:30 - 17:00 - drill FD-86-9 (E), FD86-10 (G) and FD-86-11 (F). Note serious petroleum contamination of soils and water in FD-86-11 notified Novak family of boring that will take place on their property tomorrow stand by time 3-1/2 hours for on-site moves.</pre> |
| 12 Mar | <pre>Wednesday: drillers on-site 06:30 - 15:30 - drill FD-86-12 (D) and FD-86-13 (C) begin sample classification stand by time 6 hours for on-site moves and backfilling holes.</pre> |
| 13 Mar | Thursday: - complete sample classification travel to Portland, ME. |

Date

Activity

14 Mar

Friday: at NED complex 10:15 - 11:00

- travel to Waltham, MA.

- drop off samples with logs to Joseph Colucci of the Materials Lab.

- visit Jim Blair, Terry Wong, John Hart.

TABLE II

TELEPHONE_LOG

| Date | Conversation |
|--------|---|
| 10 Mar | Monday: 08:05 and 08:30, Jim Blair continuous sampling? No - on 5 ft centers with final sample giving extra 2 ft of boring depth. depth of Boring FD-A? 32 ft. need jar labels. He will mail them to Sharon Flint. need to move FD-E and FD-D because of utilities - will keep him appraised of situation. Corps will provide mylar of plan of explorations. |
| ll Mar | Tuesday: 08:00, Jim Blair - not in - left message re: job progress |
| 12 Mar | Wednesday: 09:30, Paul L'Heureux - job progress - expected completion schedule - need to classify soils sometime after they are taken - will bring samples to Waltham after classification. |
| 14 Mar | Friday: 07:15, Jim Blair - visit to Waltham - expect me in the morning |
| | 10:30 - 11:00, Jim Blair, Terry Wong, John Hart - charge an extra geotechnical day for sample classification. - put location of sewer lines, water mains, telephone cables on logs when the hole had to be moved because of them. - picked up mylar of Attachment No. 2. |

CHAIN OF CUSTODY LOG





ATLANTIC TESTING LABORATORIES, Limited

CHAIN OF CUSTODY LOG

| PROJECT: | | infield ME 3-85-0-0011, D.O. H.0009 | |
|----------|---------------|---|-------------|
| ITEMS: | Tubes | none | |
| | Bottles | noue | |
| | Jar Samples | 100 Jars, 5 boxes FD-86-7+6 | .m FD-86-1 |
| | Core Boxes | none | |
| | Sampling Logs | FD-86-7,8,9,10,11,12,13 (7) | |
| | | Date & Time Transferred Comments Custod: as sampled THBe | |
| | | 14 Hard 86, 10:30 AM Joseph | 20 Cheri |
| | | | |
| | | | |

SAFETY REPORTS

| NEDSO | WEEKLY S | SAFETY MEETING | Date held 10 Harch 86 |
|---------|--|------------------------|--|
| THRU: | Area Engineer, fort Fair Lic | od irea | Time 0930 |
| 1111104 | | M ea | |
| 70: | Safety. Office, NED | | |
| 1. We | ekly safety meeting was held | this date for the fol | llowing personnel: |
| Contra | ct No. D.O. #9 | Contractor Aflanti | c Testing Luks, L+d |
| Conduc | ted By TA Beddoe | All personnel present | (Contr) 3 |
| | ts discussed (Note, delete, 385-1-1, Section: | or add): | (Sub) 1 (Govt) |
| A Acc | ident Prevention Plan | | · · · · · · · · · · · · · · · · · · · |
| / Ind | ividual Protective Equipment | - hard harts, g | loves |
| x Pre | vention of Falls - esp. or | n slopes near | HUEF |
| | k Injury, Safe Lifting Techn | | • |
| | e Prevention - fire extingu | | |
| χ Şar | nitation, First Aid, Waste Di | sposal - check con | dition of first Aid Kit |
| | ipping Hazards - trash, hose, | | |
| | aging, Ladders, Concrete Form | | |
| Har | nd Tools, Portable Power Tool | s, Woodworking Machin | ery - |
| × Equ | nipment Inspection & Maintena | nce (Zero Defects) - | |
| • | Isting Equipment = | | |
| v Roj | pes, Hooks, Chains and Slings | • | • |
| , | ectrical Grounding, Temporary | • | |
| Lo | ckouts for safe clearance pro | cedures - electrical, | pressure, moving parts - |
| We: | lding, Cutting - | | • |
| Ex | cavations - | | |
| χ Lo | ose Rock and Steep Slopes - | by MURT | |
| | plosives - | V | • |
| | ter Safety - | | |
| · To | cic materials - hazards, MSDS | S, respiratory, ventil | lation - |
| Cti | her - services, hospital Suferly regarding th | Cintown Prepared | lation - which al folice, emergence by Mbeddae Title |
| 2. Fo | marded. | -2/8/86 | |
| ንም: | Exposure hours 3/2/86- ATL 12 manhours | Signatu | Resident Engineer |
| | Total 12 | • | |

MED, PR 42 251 Note no work Sun-Thurs,

WEEKLY SAFETY MEETING

FOR THE CONSTRUCTION INDUSTRY

| Intu | Meeti | na Out | lilnes | |
|---------|------------|--------|---------|--|
| 3 D I T | 141 B D 11 | | 1111166 | |

Week of

1986

Company Name Atlantic Testing Labs Job Name Fort Fair Field HE (0013 Date 10 Herch 86

LIFTING AND CARRYING

It's impossible to accomplish any job in the construction industry without lifting and carrying various tools, equipment, and materials, yet very few of you do it correctly.

Your back does a good job of holding you erect, but is sure has a lousy design when it comes to bending and lifting, and maybe that's why 75 million Americans suffer from back problems.

improper lifting and carrying can also result in hernias, sprains, strains, fractured bones, and injuries from falls.

You'll be lifting and carrying the rest of your life -- make an effort now to break your bad habits, and DO IT RIGHT FROM NOW ON!

Rule number one -- THINK -- start every lift with your brain.

To lift, get a good footing, with feet about shoulder width apart.

Keep your back straight, and bend at the knees.

Lift with your legs while keeping your back straight.

NEVER twist your body while lifting.

NEVER reach and lift at the same time.

NEVER carry a package that blocks your vision.

Make sure that the floor is clear for good footing, and clean to avoid slipping.

Carry items close to your body to minimize back strain.

If the load is more than you can safely lift or carry -- GET HELP!

It's amazing how efficient and careful people can become at lifting and carrying AFTER they have injured their back. Doesn't it make good sense to lift and carry correctly to AVOID painful back problems? Remember to THINK, then do it right, starting today!

SAFETY REMINDERS WHEN LIFTING MATERIALS WITH A CRANE, BE ALERT,
AND NEVER SWING THE LOAD OVER THE HEADS OF OTHERS.

| Special Topics For Your Project watch overhead Hivet side of tracks, he espec | electrical lines; when drilling on cially mindful of your footing; be up to rails. |
|--|--|
| mindful of footing problems do | ue to rails. |
| Employee Safety Recommendations | |
| | |
| Meeting Attended By TA Beddoe (ATL) | |
| Kevin Hawkins (ATL) | |
| Mark Hawkins (ATL) Clayfon Sullivan (CPRail) | |
| | |
| | |

WEEKLY SAFETY MEETING

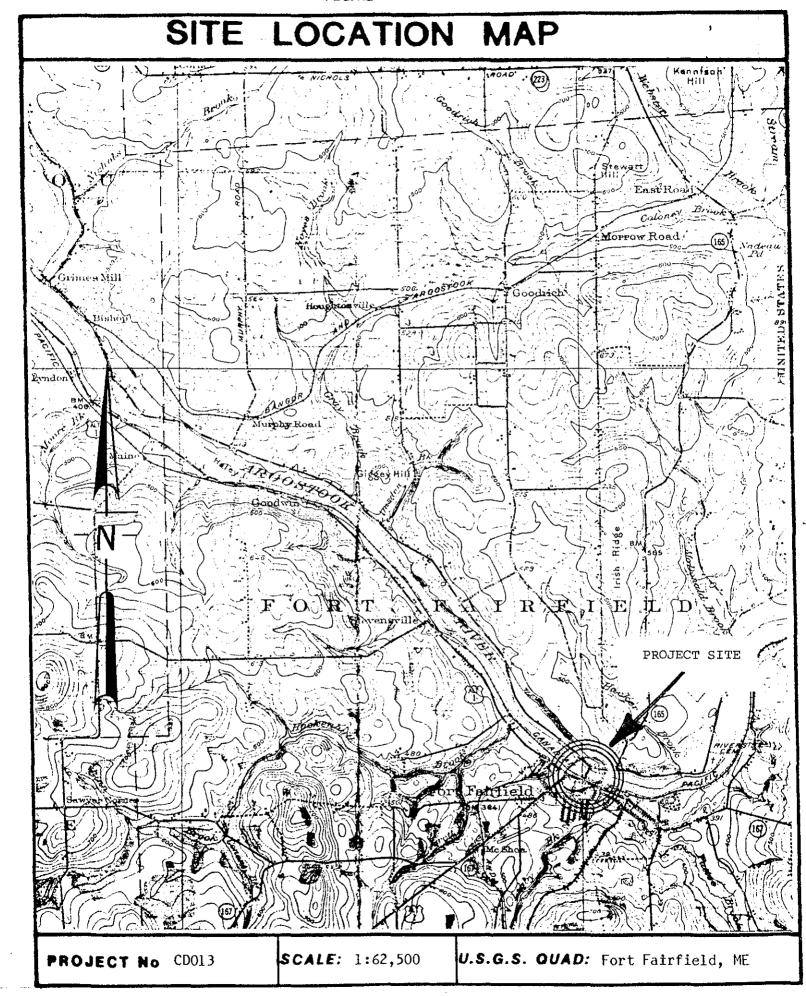
| NEDSO | | Date held | • |
|--|-------------------------|--------------------------|---------------|
| THRU: Area Engineer, Fort Faire | Pield Area | Time | |
| TO: Safety. Office, NED | | • | |
| 1. Weekly safety meeting was hel | d this date for the fol | llowing personnel: | ~ |
| Contract No. D.O. #9 | contractor Allandic | Teeting Laba, Utd | |
| Conducted By | All personnel present | (Contr) | |
| Subjects discussed (Note, delete, EM 385-1-1, Section: | or add): | (Govt) | |
| Accident Prevention Plan | | • | |
| Individual Protective Equipmen | t - | | |
| Prevention of Falls - | | | |
| Back Injury, Safe Lifting Tech | niques - | | |
| Fire Prevention - | | • | |
| Samitation, First Aid, Waste D | Misposal - | | |
| Tripping Hazards - trash, hose | , nails in lumber - | | |
| Staging, Ladders, Concrete For | ms, Safety Nets - | | |
| Hand Tools, Portable Power Too | ls, Woodworking Machin | ery - | |
| Equipment Inspection & Mainter | mance (Zero Defects) - | | |
| Hoisting Equipment - | | | |
| Ropes, Hooks, Chains and Sling | (S ' | | |
| Flectrical Grounding, Temporar | y Wiring, GFCI - | | |
| Lockouts for safe clearance pr | cocedures - electrical, | pressure, moving parts - | - |
| Welding, Cutting - | | • | |
| Excavations - | | | |
| Loose Rock and Steep Slopes - | | | |
| Explosives - | | • | |
| Water Safety - | | | • |
| Toxic materials - hazards, MS | DS, respiratory, ventil | Lation - | |
| Other - Exposure hours 3 | 3/9/86-3/15/86 | | |
| ATL 86.5 | • | by 973 Title | |
| 2. Forwarded. CPRail 12 | | | |
| OF: 96.50 Note: No work d | Signatural one or sile | Resident Engineer | |
| 3/9 2450 | ideal) | reday - 3/15/86 Saturd | acj |
| 1) me for geore | ours on 3/12/ | 186 Wednesday - 3/13/867 | those |
| .0.0.0. | _ | | |

BORING LOGS

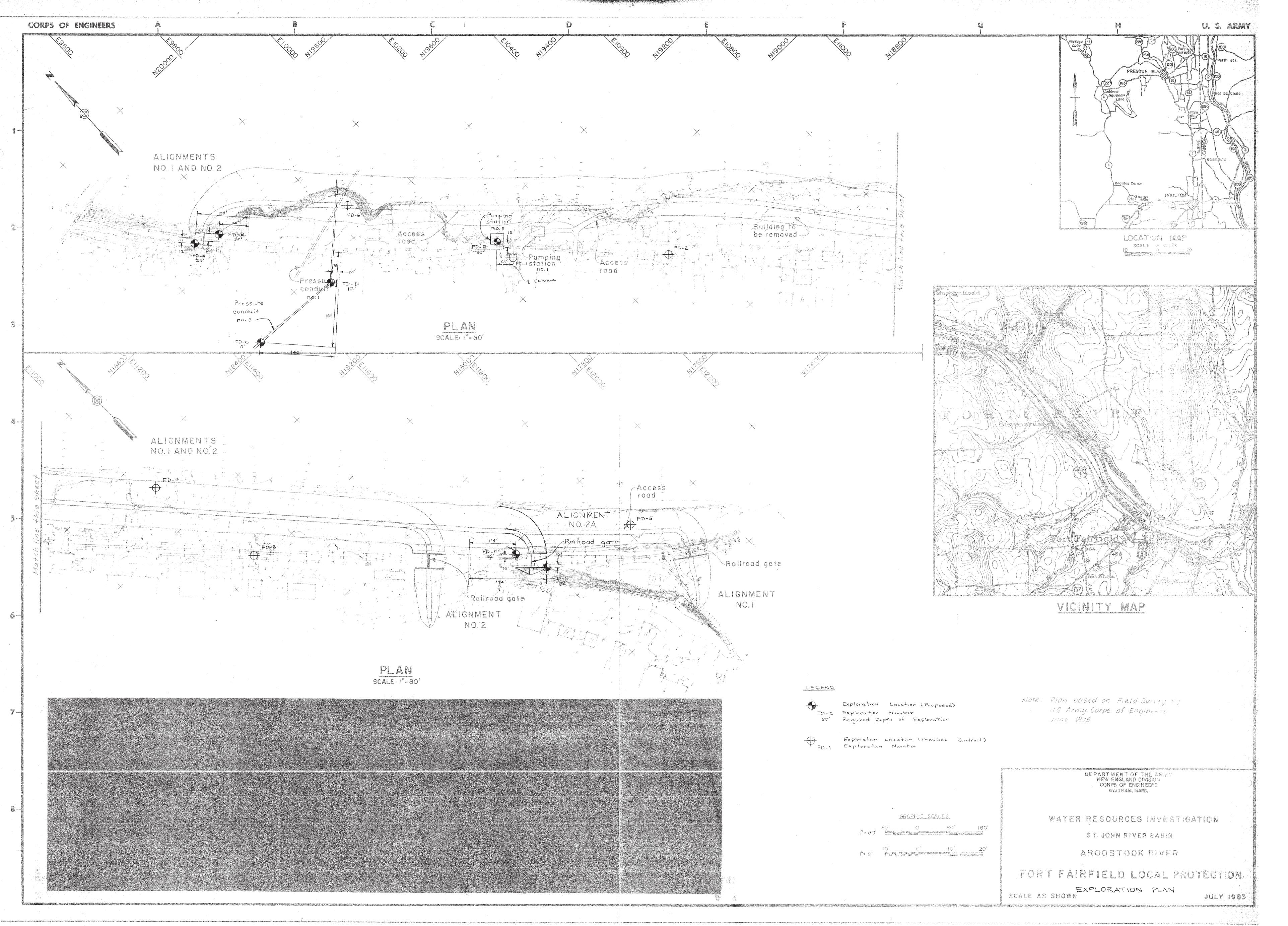
a. Figure 1 - General Project Map

GENERAL PROJECT MAP 68- 00 PROJECT SITE ALLAGASH WILDERNESS renchville Mapleto Patter SCALE: 1"=14 miles PROJECT No NORTHERN MAINE CD013

b. Figure 2 - Site Location Map



c. Figure 3 - Boring Location Plan



d. Boring Logs

| site Fort Fairfield, ME. PROJECT N | 10. <u>D. 0. # 9</u> Page 1 of <u>5</u> Pages |
|--|---|
| Hole No. FO-86-7 Diam. (Casing) 3/4" Hollow Storn Auger Co-ordinates: N 8 see borng location plan | |
| Drilled by Mark + Kevin Hawkins | Report Submitted 18 Harch 86 |
| Purpose of Exploration <u>determine</u> foundation improvement proj | |
| Elevation Top of Hole 361 ± W.S.L. Total Overburden Drilled 32 Feet Elevation Top of Rock | Casing Left in PlaceFeet |
| Total Depth of Hole 32 Feet * E | Elevations interpolated from Attachment 2 of D.O. Water Table Depth 12.3 |
| Depth He thod of Drilling From To and Type of Bit Beed O 30 3'4" T.D. Hollow Stem Auger 30 32 12/8" T.O. SPT Sampler | ### Bround Water Back_of Page S |
| Prepared by <u>TA Beddoe</u> Field Data Submitted by AHlantic Testing Lo | abs. 14d. |

| U.S. ARMY | | F. Poge 201 5 Poges |
|---|---------------------------------------|-----------------------------|
| CORPS OF ENGINEERS NEW ENGLAND DIVISION | Boring No. 7 Desig. A | Diam (Coston) 3/4" |
| NEW ENGLAND DIVISION | | · |
| FIELD LOG OF TEST BORING | Co-ordinates: N see Bori | ng & Location Plan |
| Elevation Top of Boring $361\pm$ | # M.S.L. Hammer Wt. 140 | Boring Storted 10 Mar 86 |
| Total Overburden Drilled 32 | Feet Hammer Drop 30 | Boring Completed 10 Har 86 |
| Elevation Top of Rock | | |
| | Feet Subsurface Water | Date'IPage |
| Elevation Bottom of Boring 3293 | | |
| Total Depth of Boring 32 | | + Kevin Hawkins |
| Core Recovered% No. Boxes _ | | ck mounted CME55 |
| Core Recovered Ff : Dlam. | · · · · · · · · · · · · · · · · · · · | |
| Soll Samples / 3/8 in. Diam | | TA Beddoe |
| Soil Samplesin. Diam. | | |
| DEPTH CORE/SAMPLE BLOWS 6" | SAMPLING AND CORING | |
| NO. SIZE PARTY COBE | OPERATIONS | CLASSIFICATION OF MATERIALS |
| 1 4 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 14" Hollow Stem | Brown cmp SAND and |
| 44 | Auger | GRAVEL, little SILT |
| 5-1 13/8 952 58 5 | ampling by 13/8" | (moist, nonplastic) |
| 2.0' | I.D. by 2' long | Note greater amount of |
| | split spoon | SILT with depth. |
| | soil samplet | Dense Necause of |
| 📑 | ugering easy for | <u> </u> |
| | full depth of | frost, SW FILL |
| | borina | (|
| | J | |
| 5,0 7 | | |
| 79 | | Brown CMP SAND and |
| | | GRAVEL, trace SILT |
| 5-2 13/2 75% 73 | | (dry, nonplastic) dense |
| | | 5ω |
| 7.0 | | |
| | | |
| | | |
| | | |
| _ | | 9.0' Note change to |
| 1 1 3 1 1 1 1 | | greater amount |
| (0.0) | | of sand. |
| GENERAL BENARKS: | | |
| Boring only 5.3' from 4 inaccesibility of further of probability of intercept | of track due to | |
| inaccesibility of further of | distances and aut to | |
| | | |
| Elevations interpolated from | HHOCKMENT TO OF D.O. | 1 |

| Site . | Fort | Fai | irfic | e11, | ME. | Boring No. FD-86-7 | Page <u>3</u> |
|--------|------|-------------|-------|------|------------------------|--|---|
| D | EPTH | | | | BLOWS PERST | 6"SAMPLING AND CORING | CLASSIFICATION OF MATERIALS |
| 10.0' | 1.21 | Na | 9126 | | COPE PCC'VY | OPERATIONS | ļ |
| 12.0 | | 5-3 | 13/8 | 85% | 7/2/3/2 | 314" Hollow Stem Auger Sampling by 188" I.D. by 2' long split spoon soil sampler Augering easy forfull | cf GRAVEL, trace SILT [Lary, non plastic) slightly |
| | | | | | | depth of boring water Table measured at 12.3' | |
| 15.0 | | | | | | | Similar Soils, wet |
| 17.0' | | s-4 | 13/6 | 80% | 7/24/21/ 131/ 52 | | Brown c. & GRAVEL, little cm & SAND, trace SILT (saturated, non plastic) Slightly Dense GW |
| 22.0' | | 5- <i>5</i> | 1 % | 70% | 13/33/30 | | Brown cme SAND, little cf GRAVEL, trace SILT (saturated, nonplastic) Brown cf GRAVEL, little cmf SAND, trace SILT (saturated, nonplos- |
| 250 | | 5-6 | 13/8 | 60% | 13/7/2/10 | | Brown cmf SAND and cf GRAVEL, little SILT (sat- urated, non plastic) slightly dense SW |

Boring No. FD-86-7

FORM 58A(Test)

| Sile | | | | | | | | | | | |
|-------|-------|-----|-------|---------------|-----------------|---|------------------------------|-----|---|------------|----------|
| F.0 | nt Fa | | | | | | FD-80 | 4-7 | | 01 5 | |
| | EPTH | | E/SAI | MPLE DETYN | BLOWS PER MY | 6" SAMPLING AND CORING | | | LASSIFICATION OF | MATER IALS | |
| 27.0' | 1.21 | NO | 3175 | | RECVY | | RATIONS | | | | |
| | | | | REC | | 314" Hollow Stem Auger- sampling by 13/8" I.D. by 2' long split spoon soil sampler augering easy for full depth of boring | | >n | | | ساسياس |
| 30.0 | - | | | | | end of o | <u>ugering</u> | - 6 | O ADAUL | I and conf | <u> </u> |
| 32.0 | 1111 | 5-7 | 13/8 | 6 5% | 10/16/20/27 | | - | 5 | nown of BRAVE DAND, little SILT ed, nonplastic) lense GW | - (satura- | |
| 34.0 | | | | | | Bottom o as inst | Phole at 30.0 Mucted in D.O. | 0' | | | <u> </u> |

| | | fairfield -D-86-7 | , ME. | SUBSURFACE WATER OBSERVATIONS | | | | |
|--------|-------------|-------------------------|-------------------------|--|--------------------|------------------|--|--|
| DATE | TIME | DEPTH-BOT. OF CASING | DEPTH-BOT. OF BORING | DEPTH TO WATER | ELEVATION WATER | REMARKS | | |
| 10 Mar | 1100 | 15,6 | 17,6 | 12.3' | 348.7±′ * | | | |
| | | | | ************************************** | | sample 5-4 takes | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| : | | | | <u></u> | | | | |
| | | | | | <u></u> | | | |
| | | * Elevations | interpolated | Aon Attac | rment 2 of | D.O. | | |
| Note: | Depths | are in feet i | pelow original | ground , | <u> </u> | | | |

BORING LOCATION SKETCH

Not to scale

120'

FL-86-7

OFF d of tracks

Texaco

Policy
Auto
Parts

| | A - 4 C | | | | | | | |
|---|---------------------------------------|--|--|--|--|--|--|--|
| Site Fort Fairfield, ME. PROJECT | NO. 0.0 ± 9 Page 1 of 5 Pages | | | | | | | |
| , | Auger Boring Started 10 March 86 | | | | | | | |
| | | | | | | | | |
| $\boldsymbol{\sigma}$ | | | | | | | | |
| Orilled by Hark + Kevin Hawkins | Report Submitted 18 March 86 | | | | | | | |
| Purpose of Exploration determine found | dation conditions for dike | | | | | | | |
| improvement pro | | | | | | | | |
| | | | | | | | | |
| Elevation Top of Hole $361 \pm *$ M.S.L. | Casing Left in PlaceFeet | | | | | | | |
| Total Overburden Drilled 32 Feet | | | | | | | | |
| Elevation Top of NockM.S.L. | | | | | | | | |
| Elevation Bottom of Hole $329 \pm *$ M.S.L. | | | | | | | | |
| Total Rock DrilledFeet | | | | | | | | |
| Total Depth of Hole 32 Feet | * Elevations interpolated from | | | | | | | |
| Coré Recovered | Attachment & of 0.0. | | | | | | | |
| Core RecoveredFt.;Diesin. | | | | | | | | |
| Soll Samples 13/8 In. Diam. 7 No. | | | | | | | | |
| Soli Samplesin. DiamNo. | Water Table Depth /5.8 - | | | | | | | |
| Depth Hethod of Drilling | INDEX | | | | | | | |
| From To and Type of Bit Used | | | | | | | | |
| 0 30 314" I.D. Hollow Stem Auger | Boring Location Sketch Back of Page 5 | | | | | | | |
| 30 32 13/8"I.D. SPT Sampler | Overburden RecordPage 2-4 | | | | | | | |
| | Rock DrillingPage | | | | | | | |
| | Page | | | | | | | |
| | Pags | | | | | | | |
| | Page | | | | | | | |
| | | | | | | | | |
| Propered by TA Beddoe Field Data | | | | | | | | |
| Field Data | Lab. Data | | | | | | | |
| Submitted by Atlantic Testing C | ans, cto. | | | | | | | |

| | · | كالوارد والأربي والمراضون والمراضون والمراضون والمراضون | | | | | | |
|--|-------------------------|---|--|--|--|--|--|--|
| U.S. ARM | | i | IE. Poge Rol 5 Poges | | | | | |
| CORPS OF ENGIN | | Boring No. B Desig. B | Diam. (Cosing) 3/4" | | | | | |
| FIELD LOG OF TE | ST BORING | Co-ordinates: Nace Boxin | ng I Location Sketch | | | | | |
| Elevation Top of Boring 361 ± M.S.L. Hammer Wt. 140 Boring Started 10 Mar 86 Total Overburden Drilled 32 Feet Hammer Drop 30" Elevation Top of Rock M.S.L. Cosing Left none Boring Completed 10 Mar 86 Total Rock Drilled Feet Skbsurfore Water Data' Poge 5 Elevation Bottom of Boring 32 Feet Drilled By Mark + Kevin Hawkins Core Recovered 76 No. Boxes Kifg. Drs. Drill Fruck mounted CME 55 Core Recovered 198 In. Diam. In. Inspected By: TA Beddoe | | | | | | | | |
| Soil Samples | | • | İ | | | | | |
| | | | | | | | | |
| DEPTH CORE/SAM | | SAMPLING AND CORING OPERATIONS | CLASSIFICATION OF MATERIALS | | | | | |
| 2.0' | 19 Sa | 4" Hollow Stem Auger mpling by 138" I.D. by 2' long split spoon soil sampler yearng easy for full depth of boring | Brown SILT, little mf SAND, little ORGANIC MATTER, trace cf GRAVEL, trace CLAY (wet, slightly plactic) 1005 E MH | | | | | |
| 5.0' | 5/5/ | | Brown SILT, some GRAVEL, | | | | | |
| 7.01 | 50% 5/ | | little CLAY, little mf sans, trace organic MATTEIZ (wet, plastic) loose M H | | | | | |
| further distance | n because 185 due to | aly 6.31 from center - of inaccessibility of precipitous drop off om Attachment & of 0.0. | | | | | | |

| | | | | | | | | | | 6 | |
|-------|-------|-------|--------------|----------|---------------|------------------|----------|------------------------|--|------------------------------------|------------|
| Site | Fort | rain. | ρ_{iol} | المراجع | UE. | | : Boring | | . <i>a</i> | Poge 3 | į |
| . / | OH | | | | | | | FD-86- | 8 | 01 _5 | · |
| | EPTH | COR | E/SAI | MPLE | PER ST | 6"SAMPLI | NG AND | CORING | CLASSIFICATION OF | MATERIALS | } |
| 10.01 | 1.21 | NO. | 3:22 | √ | CORE RECKY | OPE | RATIONS | | | · | } |
| | | 5-3 | 13/8 | 90% | 1/2/1/4 | Sampling by 2 | ig by | 13/8" I.D. split spoon | Brown fine SAND, trace CLAY (wet plastic) loose 5 Brown SILT, som | , slightly P | |
| 12.0 | 1 1 1 | | | | | | | for full boting, | trace CLAY (sat slightly plastic) | urated, | |
| | | | | | | - Water at 13 | | measured | | | |
| 15,0 | | 5-4 | 13/8 | 90% | 121-14 | | | · | Brown MP SAA SILT Csaturated, 1005 E ML into with varued 1 | nonplastic) erlayered slack+ | |
| 17.0° | | | | | | | | | brown silt, to SAND, trace cl unated, very sl plastic) loose | ny (sat- ightly | |
| 30.0 | - | 5-5 | 13/8 | 100% | 3/5/6/8 | | | | Dark Brown cm little silt (sad nonplastic) loc | -urated; : | |
| 25.0' | | | | | • | | | · | | | |
| 27.0' | | 5-6 | 13/8 | 100% | 7 18 23/15 | | | | Similar Soils Brown cmf SAND GRAVEL, some 5 | | THE PERSON |

| Sile | Cort | Eni | ₽. | ما ما | NE | | Boring No. | 1 0 | Page 4 | |
|-------|------|-----|--|--|-----------------|---|---|---|---|--|
| | EPTH | | | | BLOWS PER BT | | F0-8 | v - 8 | 01 _5 | |
| | · 21 | HQ. | 3126 | | CHAN | t | NG AND CORING RATIONS | CLASSIFICATION OF | CLASSIFICATION OF MATERIALS | |
| 30.0 | | 5-7 | 13/8 | 0EC | . 15/4/3/7 | samplin by 7' soil s Augerine depth | low stem Auger g by 13/8" I.D. 10ng split spoon ampler g easy for ful i. of boring. Augering | non-plastic) = dense SW Brown cm & SAND (wet, non plastic) = SW Brown cl GRAVE SAND, little SILT | some SILT slightly dense Ly some conf | |
| 32.oʻ | | • | | | • | Bottom as insta | of hole at 32.0' ucted in b.o. | plastic) dense | ; W | |
| • | | | American de la companya de la compa | and the same of the same and the | | | | | | |
| | | | | | | | | | | |

| DATE | | FD-86-8 | ME | SUBSURFACE WATER OBSERVATIONS | | | | |
|----------------------|-------------|-------------------------|-----------------------------|---|---------------------------------------|--|--|--|
| | TIME | DEPTH-BOT. OF CASING | DEPTH-BOT. OF BORING | DEPTH TO WATER | ELEVATION WATER | REMARKS | | |
| oMar | 1400 | 15:01 | 17.0' | 13.3' | 347.74 | measured after | | |
| | ļ | | | | | sample 5-4 taken | | |
| oMar | 1600 | | 3£.0' | 13.8' | 347. a=' | measured imme - | | |
| | | | | | | diadely after | | |
| | | | | | | completion of hel | | |
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| | | * Elevation | s ruterpolate | rd from 14Ho | chment a | of D.O. | | |
| | | | | | | | | |
| lote: | Depths | are in feet | below original | ground | | | | |
| ====, | | | | | | | | |
| | | | BORING I | LOCATION SKE | <u>TCH</u> | | | |
| $\rho^{\mathcal{L}}$ | | | Not = | to scale | | | | |
| ,/ | 1 | | | | | | | |
| | A. A. | | | | | | | |
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| | | | | gridge op het dezembe geme ⁿ et ellergegege E | · · · · · · · · · · · · · · · · · · · | and the land and a second | | |
| | | FD-8% - | 74 | 41 | | 7 | | |
| | | トレーをひ 一 | $\mathcal{L}_{\mathcal{A}}$ | | | | | |
| | | and reserved from the | DIG. | 300810 | Etratue | transfer of the later of the specific of the s | | |

Texaco

Detri. Forig Audo Parls

| Site Fort Fairfield, HE PROJECT NO |). <u>0.0, # 9</u> Page 1 of <u>5</u> Pages | | | | |
|--|---|--|--|--|--|
| Hole No. FD-86-9 Diam. (Casing) 314" Hollow Stem Aug | | | | | |
| Co-ordinates: NEET & boxing location sketch | Boring Completed 11 March 8 6 | | | | |
| Drilled by Mark + Kevin Howkins | Report Submitted 18 March 86 | | | | |
| Purpose of Exploration <u>determine</u> foundation improvement prop | | | | | |
| Elevation Top of Hole 363 ± M.S.L. Total Overburden Drilled 32 Feet Elevation Top of Rock | Casing Left in PlaceFeet | | | | |
| Core RecoveredFt.; | Elevations interpolated from Attachment 2 of D.O. | | | | |
| Depth Hethod of Drilling From To and Type of Bit Used O 30 3'/4" I.D. Hollow Stem Auger 30 30 13/8" I.D. SPT Sampler | Water Table Depth 13.5 INDEX Ground Water Back of Page 5 Boring Location Sketch Back of Page 5 Overburden Record Page 2-4 Rock Drilling Page | | | | |
| Propared by TA Beddoe Field Data Submitted by # Hlantic Tosfing Lab | PagePage | | | | |
| Submitted by Allantic Tosting Lab. | 5,440 | | | | |

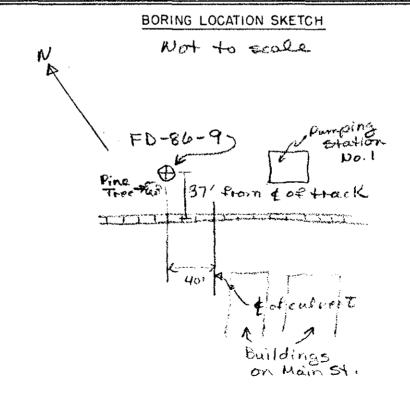
| | | | U. S. | | · | | | | E. Poge 2 of 5 Poges |
|---|-------|----------------|---------------|---------------|------------------------|----------------------------------|--------------------------|----------------------------------|--|
| | · | NEW E | S OF I | | | | | 9 Derig. <u>E</u> | Diam. (Cosing) <u>314"</u> |
| | FIE | LD LC | OG O F | TE | ST | BORII | NG Co-ordinat | es: N see Bori | ing & Location Plan |
| | | | | | | | M,S.L. | Hommer Wt. 140 Hommer Drop 30 | # Boring Started 11 Mar86 |
| | | | | | | | M.S.L. | | Boring Completed 11 Mar 86 |
| | Total | Rock | Drilled | | | | Feet | Subsurfoce Water | Date' Poge 5 |
| | | | | | | | | Obs. Well ND | -, , , , , , , , , , , , , , , , , , , |
| | | | | | | | Pest Fest | | L+Kevin Howkins |
| | t e | | | | | | ces | • | ack mounted CHESS |
| | | | | | | | olomIn. | Inspected By: | |
| | | | | | | | lom, ZNo. | | TA Beddoe |
| | Soil | Sample | | | | · | NoNo. | Classification By: _ | |
| | ļ, | EPTH | COR | E/SAN SIZE | APLE DEFTH RINGE | BLOWS PER EX SORE RECVY | 6" SAMPLING A OPERATI | ND CORING ONS | CLASSIFICATION OF MATERIALS |
| | | | | | TE EC | 51, | 3/4" Hollo | w Stem Auger | Brown SILT, some ME SAND, |
| | 1 | | 5-1 | | | | Sampling by | | little of GRAVEL, ITHE CLAY, |
| | , | | | , 10 | | 50 | by 2' 100 | g split spoon | trace ORGANIC MATTER |
| | 1.5 | | | | | | soil samp | ler, D. All | (grass, toots) (moist, slightly |
| | | | | | | | Huge Hing ed | f boxing | . |
| | | = | | | | | a epto 2 | 11- 2017/19 | plastic) dense because of |
| | | | |] | | | | | frost MH FILL |
| | |] = | | | | | | | |
| - | | = | | | | | | | |
| | | | | | | | | | |
| | , | | | j | | | | | |
| | 5.0 | | | - | | | · · | | Dork brown SILT, some |
| | | = | 1 | | | 4 | | | CLAY, little fine SAND, trace |
| | | | 5-2 | 13/8 | 150 | 3 | | | |
| | | = | } | 1.70 | ~ ~ | | | | & GRAVEL, + HACE ORGANIC |
| | 7.01 | | | ļ | ļ | 2 | - | | HATTER (10015) (moist, plastic) slight odor of petrolaum |
| | | = | 1 | ļ | | | | | 1 ~ |
| | 1 | | } . | | | | | | Product, loose, MH FILL |
| | |] = | 1 | | | | | | |
| | | | 1 | | | | | | |
| | | |] | | | | | · | |
| | 10.0 | = | 1 | | | | | | |
| | | | REM | ARKS | 5: | | | |] |
| | Box | ing m reque | oved | olu Inc | 16 A1 | o wa m | ter main u | MOEF | |
| | *F.io | reque vatio | ns ji | 19th | pole | bate | from Attach | cment #20P | |
| | | D.0. | | | • | | | | |
| | T . | | | | | | | | 1 |

| Sile | | · | | | | | Boring N | ło. | | Page 3 | |
|--------------|-------------|-------------|-------|--------|---|---|----------------------------------|--------------------------------------|---|------------------------------------|-------------|
| ļ | off F | airu | Piel | d, 1 | ME, | | FX | 0-86-9 | | 01 _5 | 1 |
| 0 | EPTH | COR! | E/SAI | 1 | PER ST | 4" SAMPLI | | ORING | CLASSIFICATION OF | MATER IALS | |
| 10.0' | , , , | | | PLÄNGE | \$ \$\$\times_{\sqrt{\sq}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} | | RATIONS | Auger | D | AM (A. 1541) | <u> </u> |
| 18.0° | | s-3 | 晋 | | 1-/2/2 | Sampling by 2 soil s Augerina denti | by 1: long si ampler easy hof be | %" I.D. plit spoon for full oring. | Brown SILT and C cmf SAND, Hace (wet, plastic) loos | cf gravel | التديياتينا |
| 16.0 | | | | | | ! | ng of s grovel Table | ery due to poon with | | | |
| 17.01 | 1111 | s-4 | 13/8 | 50% | 14/0/0/2 | | | | Brown cf. BRAVI comp SAND, some layers of Brow CLAY, trace fin | SILT with on SILT and e SAND | |
| 20.0 | | | | | | | | | cwet, non plastic) dense 6W Brown cf GRAV | | |
| విజ్ఞ.లి | | ১ -১ | 13/8 | 70% | 8/10/ 14/ 14 | | | | comp SAND, som Ladurated, nonpl Slightly dense G | e sict : | |
| <u>25,0'</u> | | | | | • | | | | • | | |
| \$7.0' | 1111 | S- b | 1% | 60% | 9/20, | | · | | Similar Soils | δW _. | |

| | <u> </u> | · | | | | | 0 | | | Don't di | |
|----------|------------|-------------|------------|--------------|----------------|-----------|------------------------------|----------------|----------------------|------------|-------|
| Site | ~ ⊎ | L C- | D | <u>ا</u> در(| , ME | | Boring No. | 0 | | Page 4 | į |
| | 1-01-7 | ra | · /~~ / | eld, | ME | | FD-86- | 7 | | 01 _5 | ; |
| D | EPTH | COR | E/SAI | ' | BLOWS PERET | 4" SAMPLE | NG AND CORING | 1 | | | |
| 27.0' | r• a' | NO. | SIZE | 2 | COAL | | RATIONS | | CLASSIFICATION OF | MATERIALS | } |
| | | | | REC | | 31/4" 16 | llow Stem Auge | , | | | F |
| ` | = | | | | | Sampling | by 13/8" I.D. | 69 | | | F |
| | | • | | | | 2' long | by 13/8" I.D. split spoon so | >i [| | | E |
| | 3 | į | | | | Samala | > - | į. | | | E |
| | | | | | | magering | easy for full of boring. | | | | 上 |
| | | | | | | Gepin | of bon j. | | | | F |
| 30.0 | | | | | | end of | augesing | [| | | E |
| 100.0 | _ | | | | | | | | Similar Soils | GW | |
| | \exists | | | | 22 | | | | | • | F |
| | | 5-7 | 13/2 | 50% | 18/03/17 | ٠. | | 1 | | | E |
| | | • | 175 | | 24 | | | | Brown SILT and 1 | CLAY, some | E |
| 32.0' | | | - | <u> </u> | | 6 1 | .f hole at 32. | | me SAND, trace | | 1 |
| | | • | | Ì | | pottom o | ucted in D.O. | | (moist, plastic) sli | | |
| | | • | | 1 | • | W 111011 | | | MH TILL | | |
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| | | Fairfiel FD-86-9 | | SUBSURFACE WATER OBSERVATIONS | | | | | |
|--------------|------|-------------------------|-------------------------|-------------------------------|-----------------|--------------------|--|--|--|
| DATE | TIME | DEPTH-BOT. OF CASING | DEPTH-BOT. OF BORING | DEPTH TO WATER | ELEVATION WATER | REMARKS | | | |
| 11 Mar | 0935 | 30.0' | 32.0' | 13.5' | 349.5± 1 * | using completed in | | | |
| | | | | | | 2.5 hours measured | | | |
| | | | | | | immediately ofter | | | |
| | | | | | | completion of hole | | | |
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| | | \ r=1 | | | 4.1 | | | | |
| | | + Eleva | HIONS INTOL | polated En | om Altach | ment a of 0.0. | | | |
| | 1 | <u> </u> | | <u> </u> | <u> </u> | | | | |

Note: Depths are in feet below original ground



| Site Fart Fairfield, ME. PROJECT N | 0. D.O. #9 Page 1 of # Pages |
|---|--|
| Hole No. FD-86- Diam. (Casing) 31/4" Hollow Stem Auge | Boring Started 11 March 86 |
| Co-ordinates: N see bor Fing location skota | L Boring Completed 11 March 86 |
| Orilled by Mark + Kruin Hawkins | Report Submitted 18 March 86 |
| Purpose of Exploration <u>determine foundar</u> improvement proje | • |
| Elevation Top of Hole $36/\pm 4$ M.S.L. | Casing Left in PlaceFeet |
| Total Overburden Drilled <u>& &</u> | restrict the reaction of the restrict the re |
| Elevation Bottom of Hole 339 ** M.S.L. Total Rock DrilledFeet Total Depth of Hole | * Elevations interpolated from Attachment 2 of D.O. |
| Soil SamplesIn. DiamNo. | Water Table Depth 12:8 |
| Depth Method of Drilling From To and Type of Bit Used 0 20 3/4" ID Hollow Stem Auger 20 22 13/8" ID SFT Sampler | Bround Water Back of Page 4 Boring Location Sketch Back of Page 4 Overburden Record Page Rock Brilling Page Page Page Page |
| Prepared by TA Boddoe Field Data Submitted by Atlantic Tenting Lab | |

| I | | | U.S. | ARM | Y | | Sile Fort Fair Aeld | Poge a of $\frac{\checkmark}{}$ Poges | 7 |
|---|-------|-------------|---------------|--|----------------|--------------|---------------------------------------|---------------------------------------|---|
| | . ! | CORP! | S OF NGLAI | | | _ | Boring No. 10 Desig. | 6 Diam. (Casing) 314" | |
| | FIEL | _D LO | OG OI | F TE | ST | BORII | IG Co-ordinates: N see F | Boring & Location Sketch | |
| | | | | | | | | 40# Boring Started 11 Mar 86 | 1 |
| | | | | | | | Feet Hommer Drop _ | 30" | |
| | | | | | | | M.S.L. Cosing Left | 30" Boring Completed 11 Mar 86 | |
| | | | • | | | | | ter Dote' Poge | ١ |
| | Eleva | tion B | ottom | of B | oring | 33 | 9 = * KS.L. , Obs. Well | | |
| | Total | Depth | of Bo | ring_ | | 2 | 2 Feet Drilled By M | ark + Kevin Hawkins | |
| | Core | Recova | red | | ° /₀ | No. Box | es Mfg. Dos. Drill | truck mounted CME 55 | |
| | Core | Recove | red | | Ft 🐫 | <u> </u> | am,in. Inspected By: | TA Beddoe | |
| į | Soll: | Somple | 8 | 13/ | <u></u> | _In. D | am, <u>5</u> No. Classification (| By: TA Beddoe | |
| | Soll | Samp!e | 3 | | | _In. D | iam. No. Classification ! | Ву: | |
| | Di | EPTH | COR | | | BLOWS | 6" SAMPLING AND CORING | | 1 |
| | 6.0 | 1°2′ | NO. | SIZE | ONFTA FANGE | COPE | OPERATIONS | CLASSIFICATION OF MATERIALS | |
| | | | | | REC | | 3/4" Hollow Stem Augel | | } |
| | | | | | | 50 | Sampling by 18" I.D. | | E |
| | | | 5-1 | 13/8 | 80% | 44 | 2' long split spoon so | ORGANIC MATTERS (wet, | - |
| | | _ | | | | 42 | Augering easy for full | nonplastic) dense due to | F |
| | 2.01 | | | ļ | | -,— <u>—</u> | depth of boning | frost, ML FILL | E |
| |] | | |] | | | - | | E |
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| | 50' | _ | | | | | | | |
| | | - | | | 1 | 9 | · | Brown mf SAND, little cf | F |
| | | = | 1 | | • | 160 | | GRAVEL, trace SILT (moist | Æ |
| | | - | 5-a | 13/8 | 80% | 14 | | pomplastic) slightly device | |
| | | = | | | | 17 | | 5P | - |
| | 7.01 | | | | - | | | | E |
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| | GEN | ERAL | REM | ARKS | 5: | | Part | e | |
| | | | | | | | from Attachment 2 of | | |
| | BON | ing r | nove | d d | ue` | to d | ifficulty of fine position because of | · | |
| | 1 | ails | and | 8 51 | nouí |), | | 1 | |

| Sile | | | | | | | Boring N | lo. | | Page 5 | • |
|-------|-------|------|-------|-------|----------------|---------------------------------------|-----------------|-----------------------|--|--------------------|-------------|
| F | ort i | Fair | field | d, k | IE. | | FD | -86-10 | | 01 | |
| D | EPTH | | E/SAI | MPLE | BLOWS PERST | 6"SAMPLI | NG AND CO | ORING | CLASSIFICATION OF | MATERIALE | |
| 10.01 | 1:21 | MQ | SIZE | 7,000 | PECKY | | RATIONS | | | | |
| 1a.01 | | 5-3 | 13/8 | 35% | 0/5/17/20 | Samplin by 2' Soil s Augerma | g by 13 long sp | for full | Brown me SAND GRAVEL, little SIL' nonplastic) slight SD | T (wet, | البيداليينا |
| | | | | | | j | -Table | measured | | | بلينينليين |
| | | | | | | | | | | | 111 |
| 15.0 | | 5-4 | 13/8 | 75% | 80 8 37 | | | | Otown of GRAI cmf SAND, little (wet, nonplastic) dense GW | SILT | بليديدلديد |
| | | | | | | | | ì va c | | | |
| 22.0 | | S-5 | 13/6 | 85% | 13 29 32 35 | end of | ' . | | Brown cmf sAM SILT, little of a with some pure SILT layers (sa nonplastic) fai | inorganic turated, | ringini |
| | | | | | | Bottom as inst | of hol | e at 22.0' IN D:0. | sω | | |

| Boring | Fort No: 1 | Foirfield FD-84-10 | d, ME. | SUBSURF | ACE WATER (| Page 40€4 DBSERVATIONS |
|---------------------------------------|---------------|-------------------------|---|-------------------|---------------------------------------|--|
| DATE | TIME | DEPTH-BOT. OF CASING | DEPTH-BOT. OF BORING | DEPTH TO WATER | ELEVATION WATER | REMARKS |
| 11 Mar | 12:17 | 20,0' | 22.0' | 18.8' | 348.2±1× | boting completed in |
| | | | | | | two hours, measure |
| | | | | | | immediately after |
| | | | | | | completion of hole |
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| | | K C1 | | 40 | | 0.4.0.0 |
| · · · · · · · · · · · · · · · · · · · | | Elevation | interpolate | d tion t | rtack misort | ≥ of DiOi |
| Note: | Depths | are in feet | below original | around - | | |
| | 7 7 7 1.11.1 | | * | | | |
| | | | | LOCATION CKI | | |
| , | | | BORING | FORTION SVI | LIGH | |
| , | | N | BORING | | · · · · · · · · · · · · · · · · · · · | |
| , | | NR | | to Scale | · · · · · · · · · · · · · · · · · · · | |
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| D |). o. d | | | | | D-86-10 |
| Dai | lroad | | | | | D-86-10 |
| Pai | lroad | | | | F | and the same of th |
| The same | | | | | F | |
| Pai | | | Not Est | | F | 10.3 |
| The same | | | Not Ba | 40 Scale | F | and the same of th |
| Marie and American | | | Not Est | 40 Scale | F | To 3 |
| Marie and American | | | Not Ba | 40 Scale | wave- | and the same of th |
| Marie and American | | | Not Ba | 40 Scale | F | 10.3 |
| The same | | | Not Ba | 40 Scale | wave- | and the same of th |
| The same | | | Not Ba | 40 Scale | wave- | To 3 |
| Marie and American | | | Not Ba | 40 Scale | wave- | 10.3 |

| Site Fort Fairfield, ME. PROJECT N | 0. <u>0. 0. # 9</u> Page I of <u>5</u> Pages |
|---|---|
| Hole No. FD-86 - Diam. (Casing) 3/4" Hollow Stem Au | |
| Co-ordinates: N see boniting location skotch | · |
| Orilled by Hark + Kevin Hawkins | |
| Purpose of Exploration determine foundaring improvement proj | |
| Elevation Top of Hole 360 ± *M.S.L. Total Overburden Drilled 32 Feet Elevation Top of Bock | Casing Left in PlaceFeet |
| Elevation Bottom of Hole 328 ± K N.S.L. Total Bock Drilled Feet Total Depth of Hole 32 Feet Coré Recovered \$ Core Recovered Ft.; Diam. In. Soil Samples 13/8 In. Diam. 7 No. | * Elevations interpolated from Attachment 2 of D.O. |
| Soil SamplesIn. DiamHo. Depth Hethod of Drilling | Water Table Depth |
| From To and Type of Bit Used 0 30 3/4" I.O. Hollow Stom Huger 30 32 13/8" I.D. SPT Sampler | Bround Water |
| Prepared by TA Boddore Field Data Submitted by Allandic Testing Lo | be 14d. |

| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
|--|--|---------------------------------------|
| U.S. ARMY | | Poge a of 5 Poges |
| NEW ENGLAND DIVISION | Boring No. 11 Desig. F | Diam. (Casing) 31/4" |
| FIELD LOG OF TEST BORING | Co-ordinates: N see BoxIr | g K Location Plan |
| Elevation Top of Boring 360± | | |
| Total Overburden Drilled 32 | Feet Hammer Drop 30 | Boring Completed 11 Mar 86 |
| Elevation Top of Rock | | |
| L Company of the comp | | Pote Pogs |
| Elevation Bottom of Boring 328 | f f | |
| Total Depth of Boring 32 | | + Kevin Hawkins |
| Core Recovered | | |
| Core Recovered Ft : Diam. | | TA Beddoe |
| Soil Samples | | TA Beddoe |
| Soil Samplesin. Diam. | No. Classification By: _ | |
| DEPTH CORE/SAMPLE BLOWS | SAMPLING AND CORING | |
| NO. SIZE DESTICERE | OPERATIONS | CLASSIFICATION OF MATERIALS |
| | 4" I.O. Hollow Stem Auger | Black fine BRAVEL and |
| 15-1 13/8 852 106 Sa. | mpling by 13/8" I.D. by | omf SAND, some SILT |
| 1.0' | | Lwet, nonplastic) dence due |
| | sampler gening easy for full | to Prost OF FILL Chosed |
| | dente of boring | on appearance, texture |
| | 1 refusal due to frost | ! ' } - |
| 5- | | and odor) |
| | | |
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| | | · · · · · · · · · · · · · · · · · · · |
| 5,0' = | | |
| | | Black cmf SAND and light |
| | La Piana aucen | brown SILT, trace of |
| 5-2 13/8 5% /4 6 | orals sample from auger at ~6.0' | GRAVEL (saturated, non- |
| | | plastic) loose ML - slight |
| 7.0' | | petroleum product odar |
| | | Auger sample - similar |
| | | soils ML (moist) |
| | | - |
| | | |
| | | - |
| | | <u> </u> |
| 10.0 | | 1 |
| GENERAL REMARKS: *Elevations interpolated from | m Attachment 2 of no | |
| Boring moved to avoid | | |
| un load tank care, **Contomination due to si | oille from unloading | |
| rail cors by the siding | a. | |

| Sile | | <u> </u> | | P / | d, MI | <u> </u> | Boring | | | Page 3 | : |
|-----------|---------------|-------------|-------------------|-------|---------------|--|------------------|-------------------------------------|--|---------------------------------|----------|
| · · | · | | · · · · · · · · · | | <i>a, 141</i> | - , | | FD-86. | -11 | 01_5 | 1 |
| - | EPTH P. 21 | COR: | E/SAI | | 60.04 | 4" SAMPLI | | CORING | CLASSIFICATION OF | MATER IALS | |
| 10.0' | | | 3126 | PANGE | DEG. XI | | RATIONS | | | | <u> </u> |
| 12.0' | | 5-3 | 13/8 | 75% | 1/3/4/18 | sampling 2' long sampli Augetha | by 13% splits | 8" I.D. by poon soil for full | Grey cmf SAND, GRAVEL, little SILT homplastic) slight sw, strong petiodor | ' Cmoist, ly dense | |
| | | | | | | | | | | - | |
| 15.0 | | 5-4 | 13/0 | 402 | 100- | Bouncing | RoPusa | Ω | Grey emp SAND o | ind cf | E |
| 12.2 | = | 3-4 | 118 | 4010 | Gaunce | | | | GRAVEL, little SILT | | |
| | | | | | | -water 7 at 1 | able w | easured | plastic) dense su petroleum odor, dripped petroleu when pulled.**(remarks). | spoon m sheen see general | |
| 26.0 | | 5- <i>6</i> | 13/8 | 45% | 3/4/7/2 | | | | Grey f. SAND, 11 trace coarse GRAT nonplastic) loose petroleum odor | VEL (wet) | |
| 25.0 | | | | | • | | | | • | | |
| 27.0 | | 5-6 | 13/6 | 100% | 4/7/9/2 | | | | Black mf 3AND, with two 1/2" layer SILT at 26.0 and nonplastic) loose leurn odor | s of brown or. O'lwd, | mulant |

| 614. | ··· | <u></u> | | | | | Daving Ma | | | Decr. 22 | |
|-------|-----------|---------|-------|-------|----------|---------------------|---------------------------|---------------------|------------------------------------|----------------|----------|
| Site | Fort | Fai | r-Pi | o Ich | MF | | Boring No. |)-84-11 | | Page 4 of 5 | į |
| | | | | | al owe | | | | | 01 | 1 |
| | EPTH | NO | E/SAI | | PERFT. | | NG AND COR | ING | CLASSIFICATION OF | MATERIALS | |
| 27.0 | 1. 21 | | | | CORP | | | | | | <u>;</u> |
| | \exists | | | REC | | 374" I. (|). Hollow S by 13/8" I | Hem Huger .D. hu | | • | F |
| | | | | | | 21 long | g split sp | oon soil | | | E |
| | \exists | | | | | samplei Augeting | easy for | Pull | | | E |
| | | | | | | depth | easy for of bohr | 9 | | | L |
| | | | | | | | | | | | E |
| 30.0 | | | | | | end of a | augering | | (| E 50110 | <u> </u> |
| | = | | | | 15/7/1/2 | | • | | Grey SILT, trace at 30.0' (wet, no | | E |
| | | 5-7 | 13/ | 700 | 11 | | | | loose ML | /cpiasi-cy | 1 |
| 1 |] = | 5~ (| 1 18 | 10 % | 12 | | | | | • | E |
| 38.0' | Ι Ξ | | | | ļ | | <u> </u> | 1 | · | | E |
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| | | Fairfield FD-86-11 | | SUBSURF | ACE WATER (| Page 5 of 5 DBSERVATIONS |
|----------------|---------|-------------------------|--|-------------------|--------------------|-----------------------------|
| DATE | TIME | DEPTH-BOT. OF CASING | DEPTH-BOT. OF BORING | DEPTH TO WATER | ELEVATION WATER | REMARKS |
| Har | 15:53 | 30,0' | 88.0' | 17.11 | 342,9±1 * | boring completed in |
| | | | | | | ofewhouse, measured |
| | | | | | | immediately after |
| | | | | | | completion of hole. |
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| <u>.</u> | | | | | | |
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| | | +elevation | s interpolat | rd from | Attachment | a et 0.0. |
| , , | | | | LOCATION SKE | ETCH_ | • |
| | | N | | | | |
| | r~. · 1 | | • | 122. | 6 | =D-86-11 |
| | ica: I | read Ti | acks | | | 7.0' from & of tra |
| Too | | j | The state of the s | 局高 | | |
| <i>6</i> 4 | adio, | ~ | | Tant | / | Wate |

| Hole No. 12 Diam. (Casing) 3/4" Hollow Stem Auger B. Co-ordinates: N ser bon Equation sketch B. Drilled by Mark + Kevin Hawkins R. Purpose of Exploration determine foundation improvement project | deport Submitted 18 March 86 conditions for dike |
|---|---|
| Co-ordinates: N set bon Equation sketch B Drilled by Mark + Kevin Hawkins R Purpose of Exploration determine foundation improvement project Elevation Top of Hole 368 * M.S.L. Co Total Overburden Drilled 12 Feet Elevation Top of Rock M.S.L. Elevation Bottom of Hole 356 * M.S.L. | deport Submitted 18 March 86 conditions for dike |
| Purpose of Exploration determine foundation improvement project Elevation Top of Hole 368 * M.S.L. Control Overburden Drilled 12 Feet Elevation Top of Rock M.S.L. Elevation Bottom of Hole 356 * M.S.L. Elevation Bottom of Hole 356 * M.S.L. | eport Submitted 18 March 86 conditions for dike |
| Elevation Top of Hole 368 * M.S.L. Control Overburden Drilled 12 Feet Elevation Top of Rock M.S.L. Elevation Bottom of Hole 356 * M.S.L. | |
| Elevation Top of Hole 368 * M.S.L. Control Overburden Drilled 12 Feet Elevation Top of Rock M.S.L. Elevation Bottom of Hole 356 * M.S.L. | |
| Total Overburden Drilled 12 Feet Elevation Top of Rock M.S.L. Elevation Bottom of Hole 356 * M.S.L. | lasing Left in PlaceFeet |
| Elevation Top of Rock | |
| Elevation Bottom of Hole 356 * M.S.L. | |
| | |
| HOTAL MOCK UTILIEDPECT | |
| Total Depth of HoleFeet | |
| | evations provided by |
| | viewer of draft report. |
| Soil Samples 13/8 In. Diam. 3 No. | |
| Soil SamplesIn. DiamNo. W | fater Table Depth dry |
| Depth Method of Drilling | HINCX |
| From To and Type of Bit lised | Bround Water Back of Page 4 |
| O 10 314 LIDITON STEIN TINGE | Boring Location SketchBack of Page 4 |
| | Dwerburden RecordPage 2-3 |
| | Rock DrillingPage |
| | |
| | Page |
| | Page |
| -1 A A 1100 | |
| Propagatory TA Beddoe Field Bata Submitted by Atlantic Testino Lake | |

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|---|---|--|----------------------------------|
| | U.S. ARMY | Sile Fort Fairfield, ME | Poge 2 of 4 Poges |
| | CORPS OF ENGINEERS NEW ENGLAND DIVISION | Boring No. 12 Desig. D | Diam. (Cosing) <u>3/4"</u> |
| | FIELD LOG OF TEST BORING | Co-ordinates: Noce BoHn | g I Location Sketch |
| | Elevation Top of Boring 368* | <u> </u> | _ Boring Started 12 Mar 86 |
| | Total Overburden Drilled /2 | Feet Hammer Drop 30' | 7 |
| j | Elevation Top of Rock | Boring Completed 12 Har 84 | |
| | Total Rock Drilled | Date Poge | |
| , | Elevation Bottom of Boring 356* | | |
| | Total Depth of Boring 12 | 1 | 1 + Kevin Howkins |
| | Core Recovered% No. Boxes | | K mounted CHE 55 |
| | Core Recovered Ft : Diam. | in. Inspected By: | A Beddoe |
| | Soll Samples 13/8 in. Diam. | 3 No. Classification By: | TA Boddop |
| | Soit Samplesin. Diam. | | 1 |
| | DEPTH CORE/SAMPLE BLOWS | | |
| | I A NO. SIZE NOSE RECEY | SAMPLING AND CORING OPERATIONS | CLASSIFICATION OF MATERIALS |
| | | | |
| | 0.35' - REC S-1 1% 1002 30 Gounce | 314" I.D. Hollow Stem | 3" asphalt Brown cmf SAND and |
| | 3-1 /18 100% Counce | Samolino bul 1/8 I.D. | SILT, some fine GRAVEL, |
| | | by 21 long split spoon | · |
| | | soil sampler encountered bouncing refusal | (wet, nonplastic) dense 5W |
| | Au | igering difficult | Boulders |
| | | from 3, -4. pecons | |
| | | of boulders | |
| ٠ | | | change at 4.0' |
| | | | _ |
| | 4.5' | | Brown SILT, little P. SAND, |
| | | | (motist, nonplastic) loose |
| | 3-213/802 | | |
| | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | ML. |
| | | igening easy for | |
| | | remainder of boring. | |
| | | 5 | |
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| | 1 | nd of augering | |
| | GENERAL REMARKS: + Elevations provided by | teviewer of draft | |
| | reapt. | | |
| | town of auto bound - west | e under oxidial | • |
| | England Telephone Cable | | |

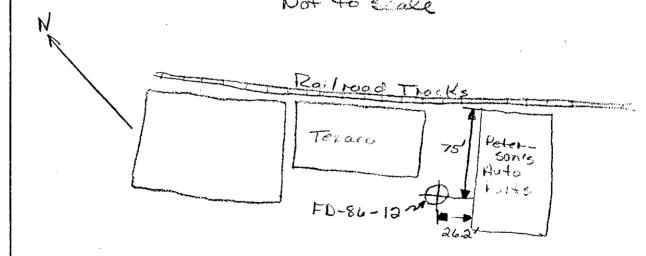
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|---------|------|------|-------|------|------------|------------|---|-------------------|-------------|
| Sile | | - | | | | | Boring No. | | Page 3 |
| | For | + Fa | int | ielo | P, H. | E. | FO-86-12 | ; | 01 _4_ |
| 0 | EPTH | COR | E/SAI | MPLE | SLOWS | CAMPI | ING AND CORING | | |
| 10.0 | 1.91 | Na | | | COLL | OPE | ERATIONS | CLASSIFICATION OF | |
| | - | | | ISEC | | 314" I.D | Hollow stem Auger by 18/8" I.D. by split spoon soil | Brown me SAN | D and SILT, |
| | | | ! | | 5 | Sampling 1 | solit spoon soil | little of GRAVEL | . Cmotst, E |
| } | | 5-3 | 1% | 65°% | 4 | sampler | - | nonplastic) loose | 5P - |
| 1 | | | 1 | | 4/3 | | | , io. ip. | <u></u> |
| 12.0' | | | | | 2 | | | | <u> </u> |
| | | | | 1 | | Bottom | of hole at 12.0' | | E |
| | | | } | | . | as inst | ructed in D.O. | | E |
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| Site: Fort Fairfield, ME- | Page 4 of 4 |
|---------------------------|-------------------------------|
| Boring No: FO-86-12 | SUBSURFACE WATER OBSERVATIONS |

| | | | <u> </u> | 1 | | | | | |
|--------------------------------|--|-------------------------|-------------------|----------------------|-------------------|----------------------|--|--|--|
| DATE TIME DEPTH-BOT. OF CASING | | DEPTH-BOT. OF BORING | DEPTH TO WATER | ELEVATION WATER | REMARKS | | | | |
| 12 Mar 0900 10.0' | | 12.0 | dry | | hale completed in | | | | |
| | | | | J | | two hours, filled in | | | |
| | | | | upon completion as | | | | | |
| | | | | | | water not expected | | | |
| | | | | | | due to elevation of | | | |
| | | | | | | water table along | | | |
| | | | | | | the tracks and | | | |
| | | | | difference in cleva- | | | | | |
| | | | | tion between boxing | | | | | |
| | | | | | and tracks. | | | | |
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Note: Depths are in feet below original ground

BORING LOCATION SKETCH Not to scale



| Site Fort Fairfield, ME. Hole No Diam. (Casing) 3/4 Hollow Stem Auge Co-ordinates: N see boring Incotion sketch Drilled by Hark + Kevin Hawkins Purpose of Exploration determine Coundation improvement project | Report Submitted 18 March 86 The conditions for dike |
|--|--|
| Elevation Top of Hole 379 M.S.L. Total Overburden Drilled 17 Feet Elevation Top of Rock M.S.L. Elevation Bottom of Hole 362 M.S.L. Total Rock Drilled Feet Total Depth of Hole 17 Feet Core Recovered Ft.: Diam. In. Soil Samples In. Diam. Ho. | Casing Left in Place Foot * Elevations provided by teviewer of draft report. Water Table Dooth dry |
| Depth Method of Brilling From To and Type of Bit Used O 15 3/4" I.D. Hollow Stem Auger 15 17 13/8" I.D. SPT Somplet Prepared by TA Bradge Field Data | Bround Water Beck of Page |

| | | U.S. | | | _ | | Site Fort Fairfield, ME. Pogea of 4 Poges | | | | | |
|---|-------------|----------------|---------------|----------------|---------------|----------------------------|---|-----------------------------|--|--|--|--|
| | | PS OF ENGLA | | | | Boring No. | 13 Desig. <u>C</u> | Diam. (Cosing) 314" | | | | |
| | FIELD | LOG O | FTE | ST I | BORII | VG Co-ordinal | es: <u>Nee Bonin</u> | a KLoxation Sketch | | | | |
| | Elevation | Top of E | orin g | | 37 | 79* M.S.L. | | # Boring Storted 12 Mar 86 | | | | |
| | Total Over | burden l | Orille | d | | 7 Feet | Hommer Drop 30 | Boring Completed 12 Mar 86 | | | | |
| | Elevation | Top of F | Rock _ | | | M.S.L. | • | - , } | | | | |
| | Total Roc | | | | | Feet | · · · · · · · · · · · · · · · · · · · | | | | | |
| | Elevation | Bottom | of Bo | oring. | <u> </u> | <u>42 M.S.L.</u> 7Fee1 | Obs. Well Mo | + Kevin Hawkins | | | | |
| | | | | | | ics | | ck mounted CHESS | | | | |
| | | | | | | lomin. | | | | | | |
| j | | | | | | lam. 4 No. | | TA Baddop | | | | |
| | i i | | | | | iam No. | Classification By: _ | _ [| | | | |
| | | | | | | <u> </u> | | | | | | |
| ļ | DEPTH | | E/SAN | | -LR PT | "SAMPLING A | | CLASSIFICATION OF MATERIALS | | | | |
| | 0.0' 1" = 5 | NO. | SIZE | r aX çe | CORE RECVY | | | | | | | |
| | 0,51 | 5-1 | 13/8 | 70% | 75 | 314" I.D. H. | | Brown SILT, some emp | | | | |
| | | | | | | Sampling by | 13/8" I.D. by | SAND, HACE OF BEAUEL, | | | | |
| | - | 7 | | | | 2' long s | split spoon | Hace ORGANIC MATTER | | | | |
| | | 3 | | | | Augeling ea | sy for full | (grass) (moist, nonplastic) | | | | |
| | - | - | | | | 1 .0 1 1 | 2 IAALIMA. | dense due to frost | | | | |
| - | | 3 | | | | 5-1 encount | tored refusal | | | | | |
| | - | 4 | | | | | | ML | | | | |
| | | 7 | ' | | | | | | | | | |
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| | 5.0' | 7 | | | | | | | | | | |
| | 3.0 | - | | | 2 | 1 | | Similar Soils, loose, ML | | | | |
| | | 3 | | | 7 | | | | | | | |
| | - | 35-2 | 13/8 | 65% | 6 | | | | | | | |
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| | Ranna | ed th | epor | t. 50 0 | .s 1^ | et to crust | r pine | | | | | |
| | 586 | alings | art | Mr | . No | et to crust wak's regue | 254. | | | | | |
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| Sile | <u> </u> | | ···· | | | | Baring No. | · · · · · · · · · · · · · · · · · · · | | Page 3 | |
|-------|--------------------|--------------------------------------|------|-------------------|---------|--------------------------------|-----------------------------------|---------------------------------------|--|------------|--|
| | Fort Fairfield, ME | | | | , ME | - , | FD-8 | 86-13 | , | 01 4 | 1 |
| | EPTH | CORE/SAMPLE BLOWS CAMPING AND CORING | | CORE/SAMPLE BLOWS | | | | 7 | | | |
| 10.01 | 1.91 | MQ | 312E | NAME OF | COAN | OPERATIONS | | | CLASSIFICATION OF | MATER IALS | |
| 12.0' | | s-3 | | REC | 2/ | 3/4" I.1 Auger Sampling 2' los | g by 13/8" I.D. ng split spoon | by soil | Brown mf SAA SILT, trace GR (moist, non plass SP | AVEL | |
| | | | | | | * \$ \$ 'k | oung | | | | |
| | | | | | | | A aucassus | | | • | - |
| 15.0 | 1 | 5-4 | 13/8 | 75% | 3/2/3/7 | | & augerino | | Brown silt, son SAND, trace cf (moist, nonplasti ML | GRAVEL | |
| 17.0' | | 4 | | | | bottom as in | of hole at structed in | 17.0° 0.0. | | | <u>խուհամասիումում անահատևումում ա</u> |

SUBSURFACE WATER OBSERVATIONS Site: Fort Fairfield, HE. Boring No: FD-86-13 DEPTH-BOT. DEPTH-BOT **ELEVATION** DEPTH DATE TIME REMARKS OF CASING OF BORING TO WATER WATER dry 17.0' 18 Mar 11:30 15.01 hole completed in two hours, filled in upon completion as water not expeded due to elevation of water table along the tracks and difference in elevation between boring and tracks. Note: Depths are in feet below original ground BORING LOCATION SKETCH Not to Scale Railroad Tracks Deter Texaco

FO-86-13

133.51

2151